

[54] **PROCESS FOR SUSPENSION
POLYMERIZATION**

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526/347.2

[58] Field of Search 526/65, 88, 347.2

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[57] **ABSTRACT**

There is provided a suspension polymerization process for production of polymer particles having a substantially uniform size, which process comprises the steps of: (a) applying regular vibration to a flow of a monomer liquid which has a specific gravity smaller than that of an aqueous dispersion medium, (b) introducing the aqueous dispersion medium containing the droplets in a first reactor comprising a recycling means which discharges the aqueous dispersion medium from the bottom of the reactor and recycles it to the top of the reactor, (c) partially polymerizing the monomer liquid in the first reactor so that the specific gravity of the droplets does not exceed that of the aqueous dispersion medium while maintaining the suspended condition of the droplets, and (d) discharging the partially polymerized droplets together with the aqueous dispersion medium from a lower portion of the first reactor and introducing them in a second reactor, and (e) further polymerizing the partially polymerized droplets in the second reactor.

2 Claims, 7 Drawing Sheets

